



LFW

Attorney Docket: 117163.00155

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Borck et al. Examiner: Not yet assigned
Serial No.: 10/561,774 Art Unit: Not yet assigned
Filed: 20 December 2005 Date: March 17, 2006
For: COATING SYSTEM FOR IMPLANTS FOR INCREASING TISSUE
COMPATIBILITY

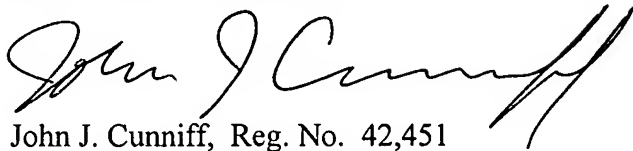
Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

Transmitted herewith:

- 1) Information Disclosure Statement
- 2) PTO/SB/08a Form (3 pages)
- 3) PTO/SB/08b Form (1 Page)
- 4) 12 Copies of Foreign Patent Documents
- 5) 11 Copies of Non Patent Documents
- 4) Acknowledgement of Receipt/Return Card

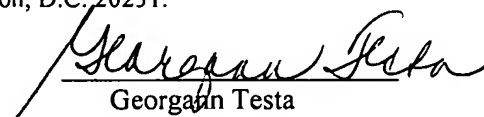
HAHN LOESER + PARKS LLP

By 
John J. Cunniff, Reg. No. 42,451

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United State Postal Service as First Class mail on the date shown below and addressed to the: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

17 March '06
Date


Georgina Testa



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Borck and Gerd Bayer

Examiner: Not yet assigned

Serial No: 10/561,774

Art Unit: Not yet assigned

For: COATING SYSTEM FOR IMPLANTS FOR INCREASING TISSUE
COMPATIBILITY

Filed: 20 December 2005

Date: March 17, 2006

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Under 37 CFR §1.97

This Information Disclosure Statement is filed within three months of filing or before a first Office Action on the merits, and therefore, it is timely filed without payment of a fee. 37 CFR §1.97(b).

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 CFR §1.56(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this Information Disclosure Statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13, at 25.

This Information Disclosure Statement is made to comply with the duty of candor imposed on all individuals associated with the filing or prosecution of this application, as defined by 37 CFR §1.56(c).

Nine (9) U.S. Patent documents and twelve (12) foreign patent documents are listed on the attached three (3) sheets of Form PTO/SB/08A which is made a part hereof. Nine (9) non patent literature documents are listed on the attached one (1) sheet of Form PTO/SB/08B which is made a part hereof. A copy of each of the foreign patent documents and non patent literature documents are enclosed.

U.S. Publication No. 2005/0176678 A1 (Cite No. AI) is believed to correspond to foreign document DE 102 21 055 A1 (Cite No. BB) not in the English Language, U.S. Patent No. 5,964,794 (Cite No. AG) is believed to correspond to foreign document DE 196 30 563 A1 (Cite No. BC) not in the English Language, and U.S. Publication No. 2004/0091605 A1 (Cite No. AH) is believed to correspond to foreign document EP 1 364 664 A1 (Cite No. BF) not in the English Language.

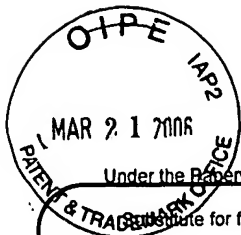
Additional documents enclosed but not listed is a Derwent English language translation of the abstract of DE 101 35 676 A1 (Cite No. BA) and a copy of the Search Report from the German Patent Office for a corresponding German Application, which cites documents not in the English language submitted herewith.

The foregoing Information Disclosure Statement is based upon the information known to the inventor or contained in the undersigned attorney's file as of the filing date of this statement and is inclusive of the best information known to each of the undersigned at that date. Prompt consideration of the Information Disclosure Statement and the references by the Examiner is earnestly requested.

Respectfully submitted,


John J. Cunniff
Reg. No. 42,451

Hahn Loeser & Parks LLP
One GOJO Plaza
Suite 300
Akron, Ohio 44311-1076
330-864-5550
Atty. Docket: 117163.00155



PTO/SB/08a (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/561,774
Filing Date	12/20/2005
First Named Inventor	Alexander Borck
Art Unit	
Examiner Name	
Attorney Docket Number	117163.00155

Sheet 1 of 3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US- 4,582,865	04/15/1986	Balazs et al.	
	AB	US- 4,957,744	09/18/1990	della Valle et al.	
	AC	US- 5,510,121	04/23/1996	Rhee et al.	
	AD	US- 5,550,187	08/27/1996	Rhee et al.	
	AE	US- 6,042,876	03/28/2000	Mark E. Deem	
	AF	US- 6,129,956	10/10/2000	Morra et al.	
	AG	US- 5,964,794	10/12/1999	Bolz et al.	
	AH	US- 2004/0091605 A1	05/13/2004	Bayer et al.	
	AI	US- 2005/0176678 A1	08/11/2005	Horres et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	BA	DE	101 35 676	A1	02/06/2003	Hoppe et al.		
	BB	DE	102 21 055	A1	11/27/2003	Hoffmann et al.		
	BC	DE	196 30 563	A1	09/25/1997	Bolz et al.		
	BD	EP	0 544 259	A1	06/02/1993	Uragami et al.		
	BE	EP	0 970 711	A2	01/12/2000	Hossainy et al.		

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

3

Complete if Known

Application Number	10/561.774
Filing Date	12/20/2005
First Named Inventor	Alexander Borck
Art Unit	
Examiner Name	
Attorney Docket Number	117163.00155

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	BF	EP 1 364 664	A1	11/26/2003	Bayer et al.	
	BG	WO 00/46252	A1	08/10/2000	Zhao et al.	
	BH	WO 00/56377	A1	09/28/2000	Wan et al.	
	BI	WO 01/41827	A1	06/14/2001	Malik et al.	
	BJ	WO 03/094990	A1	11/20/2003	Horres et al.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/561,774
Filing Date	12/20/2005
First Named Inventor	Alexander Borck
Art Unit	
Examiner Name	
Attorney Docket Number	117163.00155

Sheet 3 of 3

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
	BK	WO	88/02623	A1	04/21/1998	Patrick E. Guire	
	BL	WO	90/00887	A1	02/08/1990	Guire et al.	

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/561,774
				Filing Date	12/20/2005
				First Named Inventor	Alexander Borck
				Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	117163.00155

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	CA	DENUZIERE ET AL. , "Chitosan-chondroitin sulfate and chitosan-hyaluronate polyelectrolyte complexes: biological properties," Biomaterials, Elsevier Science Ltd., p. 1275-1285, (1998).		
	CB	LIM ET AL., "Preparation and evaluation of the in vitro drug release properties and mucoadhesion of novel microspheres of hyaluronic acid and chitosan," Journal of Controlled Release, Elsevier Science B.V., Vol. 66, p. 281-292, (2000).		
	CC	PAPAKONSTANTINO ET AL, "A 340 kDa hyaluronic acid secreted by human vascular smooth muscle cells regulates their proliferation and migration," Glycobiology, Oxford University Press, p. 821-830, (1998).		
	CD	MULLOY ET AL., "The effect of variation of substitution on the solution conformation of heparin: a spectroscopic and molecular modelling study," Carbohydrate Research, Elsevier Science B.V., Vol. 225, p. 1-26, (1994).		
	CE	JASEJA ET AL., "Novel regio- and stereoselective modifications of heparin in alkaline solution. Nuclear magnetic resonance spectroscopic evidence," Can. J. Chem., Vol. 67, p. 1449-1456, (1989).		
	CF	OGAMO ET AL., "Reactivity toward chemical sulfation of hydroxyl groups of heparin," Carbohydrate Research, Elsevier Science Publishers, B.V., Amsterdam (The Netherlands), Vol. 193, p. 165-172, (1989).		
	CG	AYOTTE ET AL., "N.M.R. Spectroscopic observations related to the function of sulfate groups in heparin. Calcium binding vs. biological activity," Carbohydrate Research, Elsevier Science Publishers, B.V. (The Netherlands), Vol. 145, p. 267-277, (1986).		
	CH	NAGASAWA ET AL., "Solvolytic desulfation of Glycosaminoglycuronan sulfates with dimethyl sulfoxide containing water or methanol," Carbohydrate Research, Elsevier Scientific Publishing Company, Amsterdam (Belgium), Vol. 58, p. 47-55, (1977).		
	CI	DANISHEFSKY ET AL , "Investigations on the chemistry of Heparin. I. Desulfation and Acetylation," Journal, Archives of Biochemistry and Biophysics, Vol. 90, p. 114-121, (1960).		

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.